TRAIL FORTRESS

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Rough Country 51127 Installation Instructions

Hidden Winch Mount with 12000-Lb Winch for F-250/F-350 Super Duty

Part number: 51127

trailfortress.com/hidden-winch-mount-f250-f350-super-duty-rough-country-51127

Scan for fitment, price and install help

ROUGH COUNTRY SUSPENSION SYSTEMS®

921511190

FORD 2020-22 F-250 Hidden Winch Mount

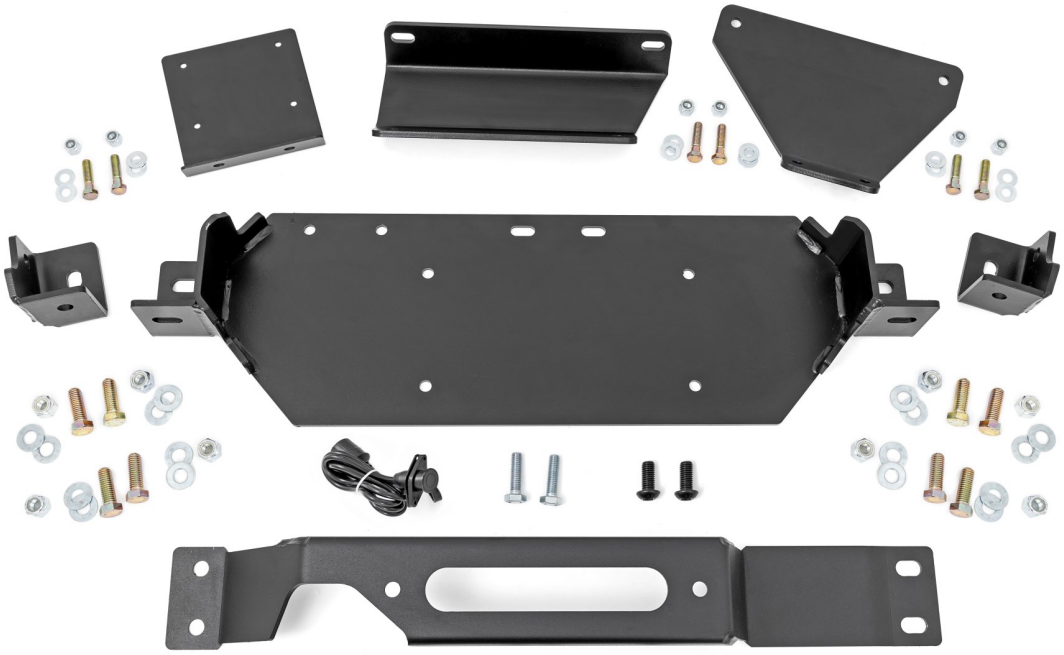
Thank you for choosing Rough Country for all your vehicle needs.

Please read instructions before beginning installation. Check the kit hardware against the kit contents shown below. Be sure you have all needed parts and know where they go.
If question exist, please call us @1-800-222-7023. We will be happy to answer any questions concerning this product.
Check all fasteners for proper torque. Check to ensure for adequate clearance between all components.
Periodically check all hardware for tightness.

KIT CONTENTS:
Dr. Winch Tray Mount x1
Pass. Winch Tray Mount x1
Winch Tray x1
Hawse Fairlead Mount x1
Upper Brace x1
Lower Brace x1
Controller Mount x1
Winch Remote Extension x1

TOOLS NEEDED:
18mm Wrench or Socket
3/4” Wrench or Socket
8mm Allen Wrench
Cut Off Wheel
Color Match Paint
1” Bit
Drill Motor
Phillips Bit Driver

HARDWARE INCLUDED:
Hex Head Bolt 1/2-13 x 1.5 x8
1/2” Flat Washer x16
1/2-13 Nylock Nut x8
Hex Head Bolt M10-1.5 x 35mm x2
Button Head Bolts M12-1.75 x 25mm
Hex Head Bolts 3/8-16 x1.5 x6
3/8” Flat Washers x12
3/8-16 Nylock Nuts x6

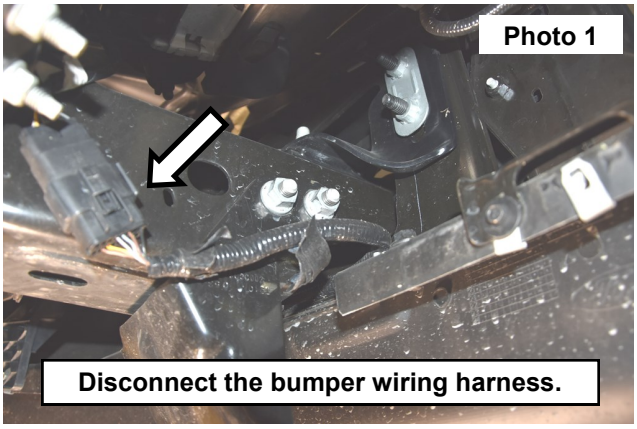


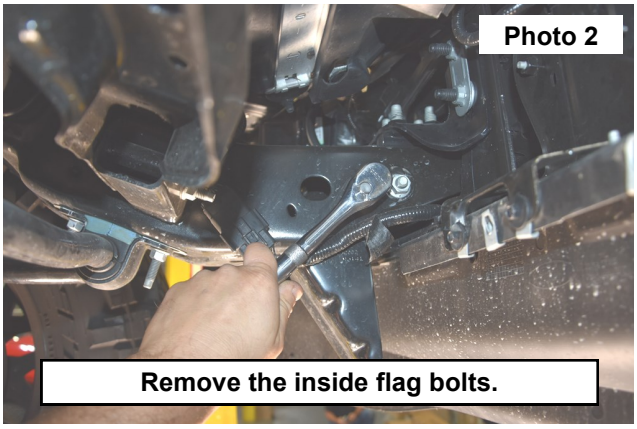
Torque Specs:

Size	Grade 5	Grade 8	Size	Class 8.8	Class 10.9
5/16”	15 ft/lbs	20ft/lbs	6MM	5ft/lbs	9ft/lbs
3/8”	30 ft/lbs	35ft/lbs	8MM	18ft/lbs	23ft/lbs
7/16”	45 ft/lbs	60ft/lbs	10MM	32ft/lbs	45ft/lbs
1/2”	65 ft/lbs	90ft/lbs	12MM	55ft/lbs	75ft/lbs
9/16”	95 ft/lbs	130ft/lbs	14MM	85ft/lbs	120ft/lbs
5/8”	135ft/lbs	175ft/lbs	16MM	130ft/lbs	165ft/lbs
3/4”	185ft/lbs	280ft/lbs	18MM	170ft/lbs	240ft/lbs

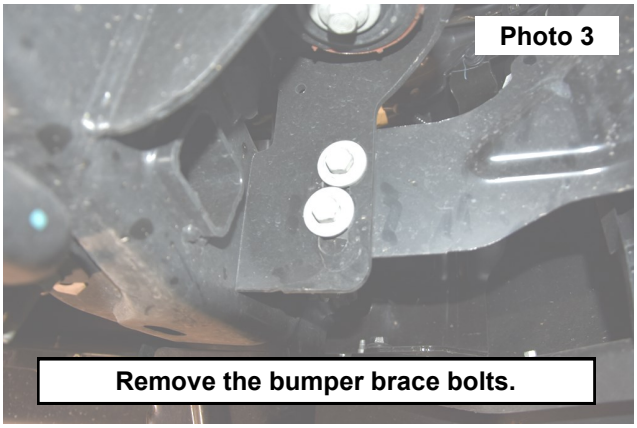
INSTALLATION INSTRUCTONS

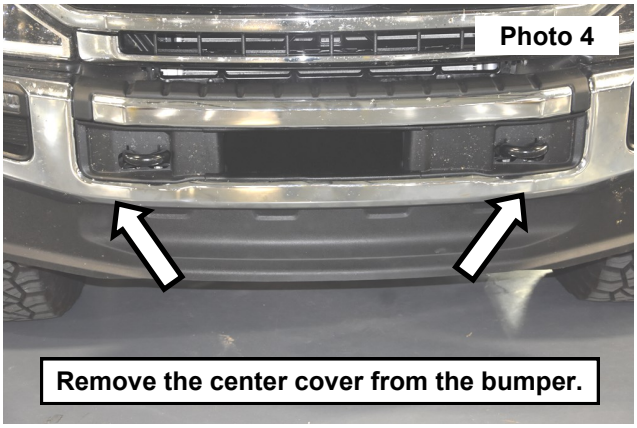
1. Disconnect the bumpers wiring harness. **See Photo 1.**
2. Remove the (2) inside nuts from the flag bolts using a 18mm socket. **See Photo 2.**





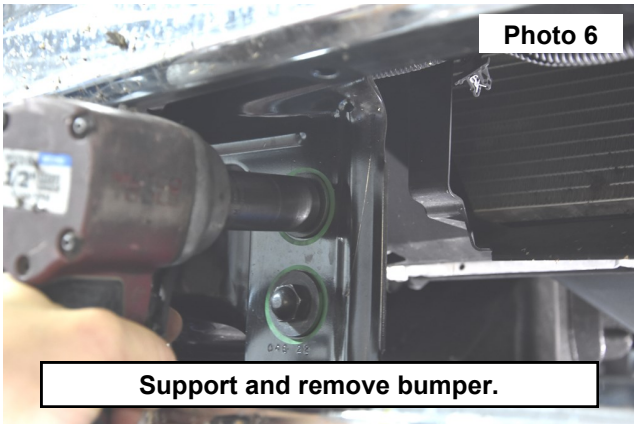
3. Remove the Driver and Passengers side bumper brace using a 18mm socket. Retain hardware for later use. **See Photo 3.**
4. Remove the center cover from the bumper by releasing the tabs on the back side of the trim. **See Photo 4.**



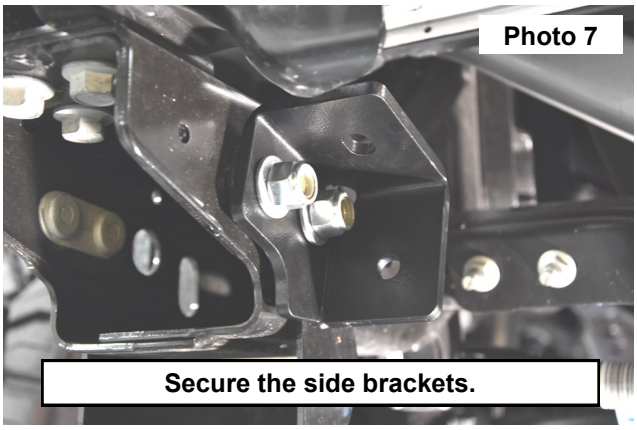


5. Trace the outer edge of the washer onto the bumper using a paint marker. **See Photo 5.**
6. Support the bumper, Then remove the (4) bolt on each side of the bumper mounts using an 18mm socket. **See Photo 6.**



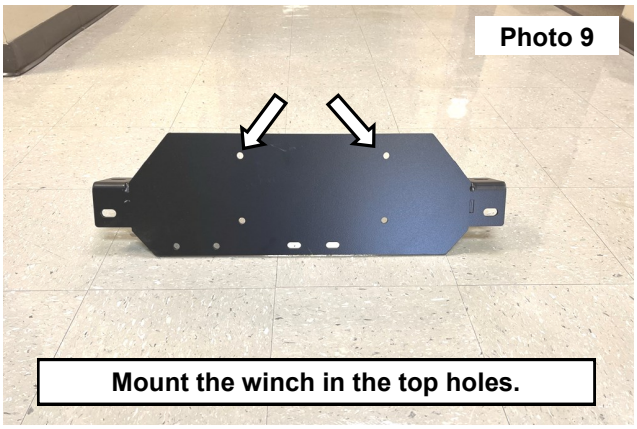


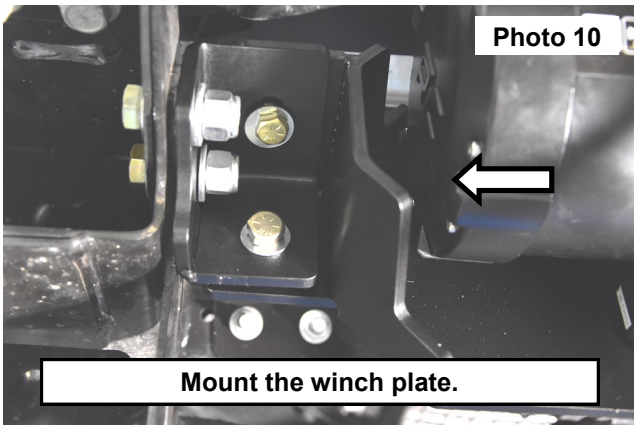
7. Place the Passengers side as shown with mounting flange to the top of the bracket to the side of the frame end and secure using (2) of the supplied 1/2-13 x 1.5” bolts, (4) 1/2” flat washers and (2) 1/2-13 nylock nuts. Snug using a 3/4 wrench and socket. Do not fully tighten at this time. **See Photo 7.**
8. Install the driver side bracket using the remaining 1/2” hardware.
9. Install the ground wires onto the winch. **See Photo 8.**



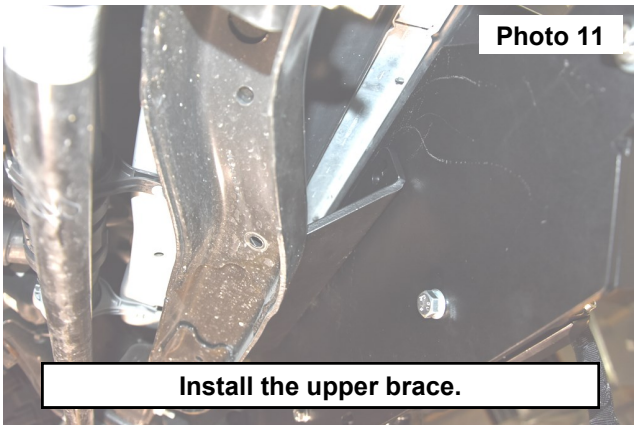


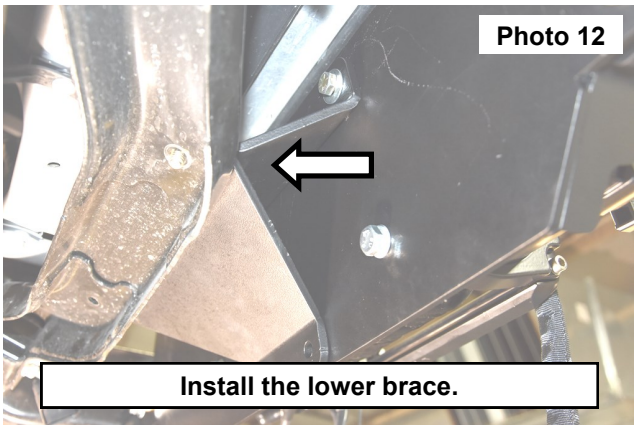
10. Install the winch onto the winch plate using the bottom 2 holes of the winch using the supplied hardware in the winch kit. **See Photo 9.**
11. Install the winch plate on the frame brackets. Then secure using (2) of the supplied 1/2-13 x 1.5” bolts, (4) 1/2” flat washers and (2) 1/2-13 nylock nuts. Snug using a 3/4 wrench and socket. Do not fully tighten at this time. **See Photo 10.**



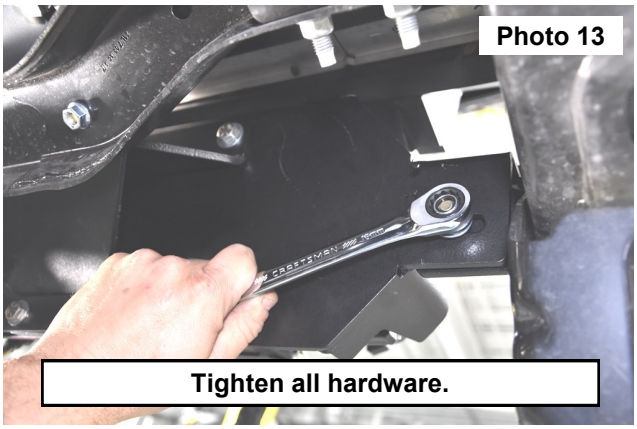


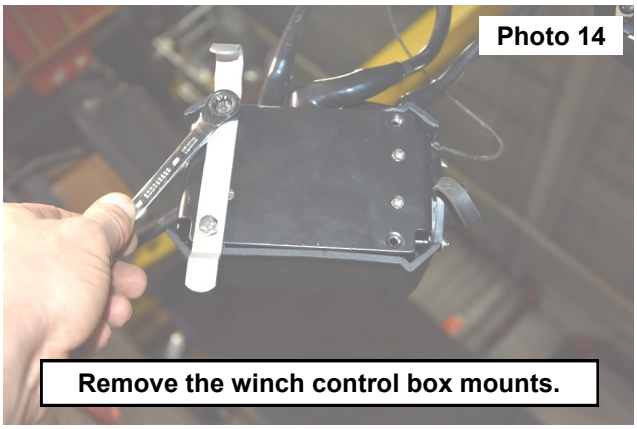
12. Place the top brace onto the winch plate securing it into the winch using (2) of the supplied 10-1.5 x 35mm bolts and (2) of the washers supplied in the winch kit. **See Photo 11.**
13. Install the lower brace under the previously installed brace and secure to the frame and the winch plate using (4) of the supplied 3/8-16-1.5 bolts. **See Photo 12.**



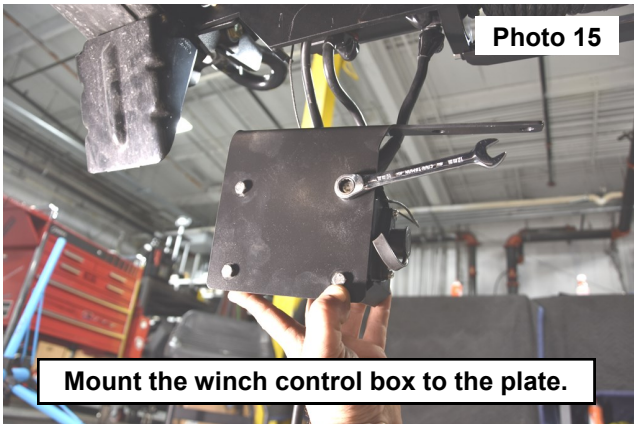


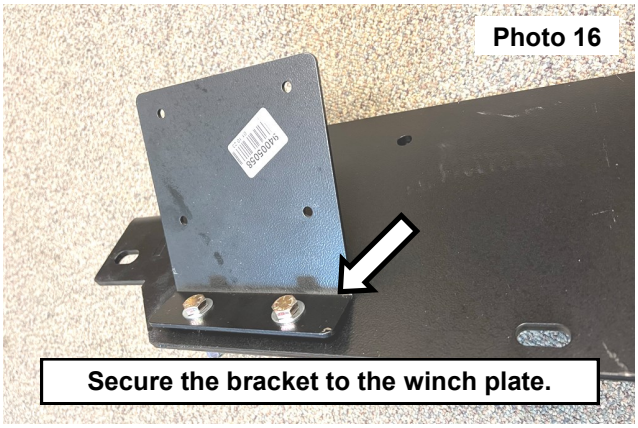
14. Tighten all of the hardware currently installed for the winch plate and the frame. **See Photo 13.**
15. Remove the brackets from the winch control box using a 10mm wrench. Retain hardware. **See Photo 14.**



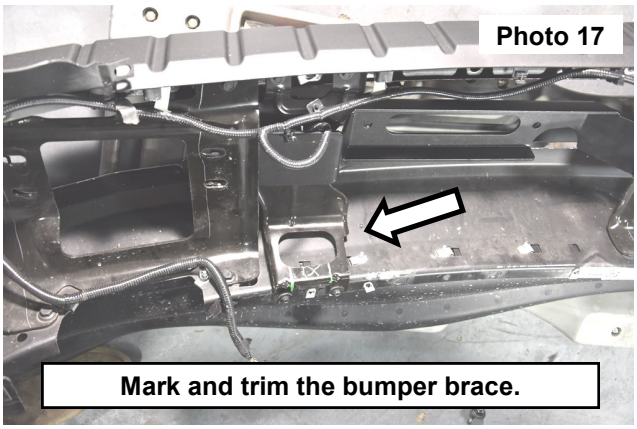


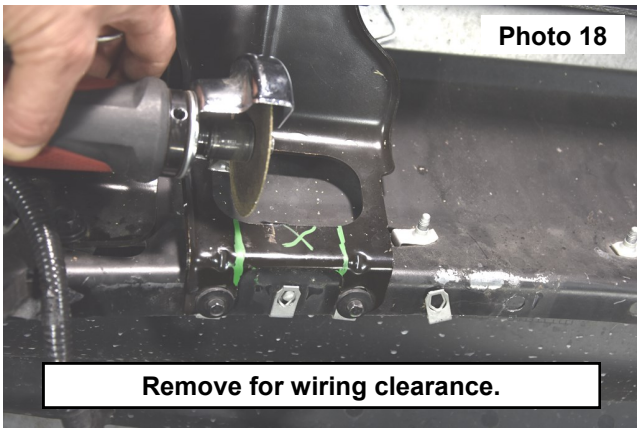
16. Mount the winch control box on to the new mounting bracket using the retained hardware. **See Photo 15.**
17. Place the bracket to the winch plate and secure using (2) of the supplied 3/8-16 x 1.5 bolts (4) 3/8 washers and (2) 3/8-16 nylock nuts. Tighten the hardware using 9/16 wrenches. **See Photo 16.**



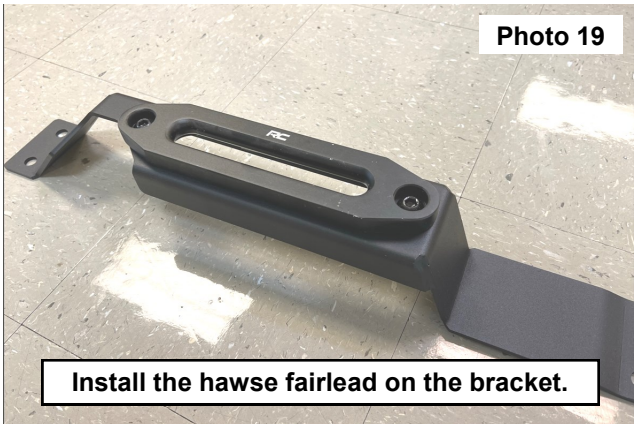


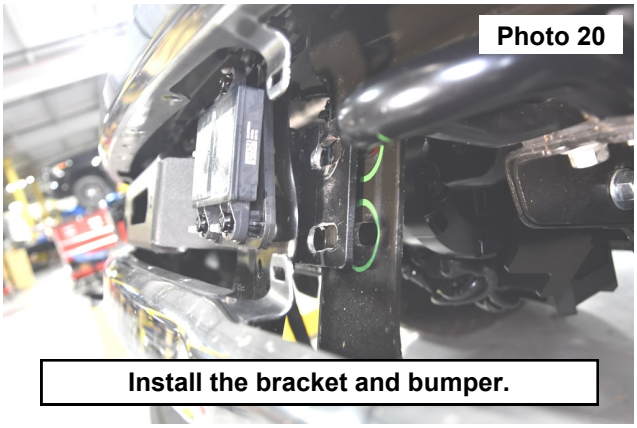
18. Mark two straight lines onto the bracket, then trim the bumper brace for clearance of the winch wiring. Sand for sharp edges and paint to present rust. **See Photos 17 and 18.**



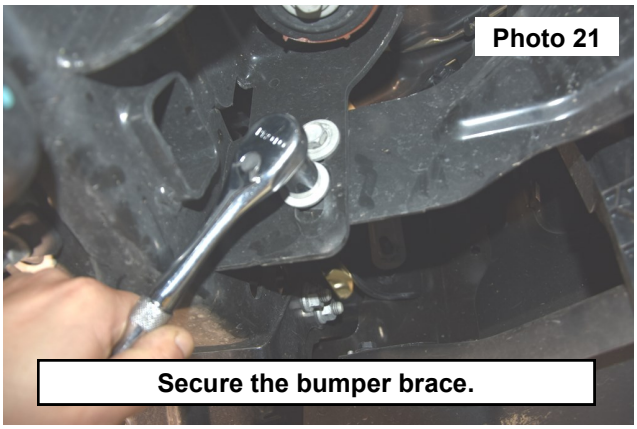


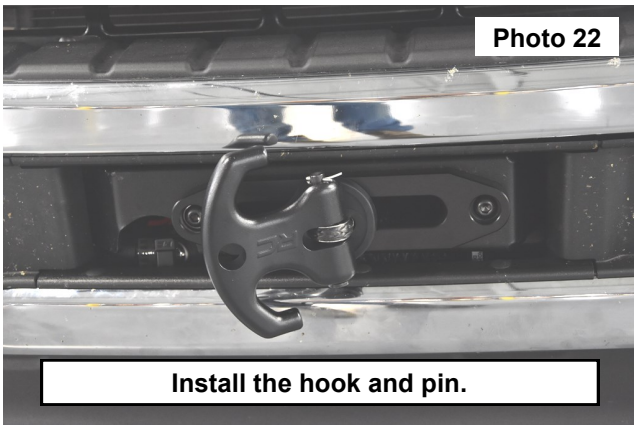
19. Install the hawse fairlead on to the bracket using (2) of the supplied 12mm Button head Allen bolts and (2) of the supplied nuts in the winch kit. Tighten using a 8mm Allen wrench. **See Photo 19.**
20. Place the hawse fairlead bracket and the bumper on to the frame mount and secure using the OE hardware. **See Photo 20.**



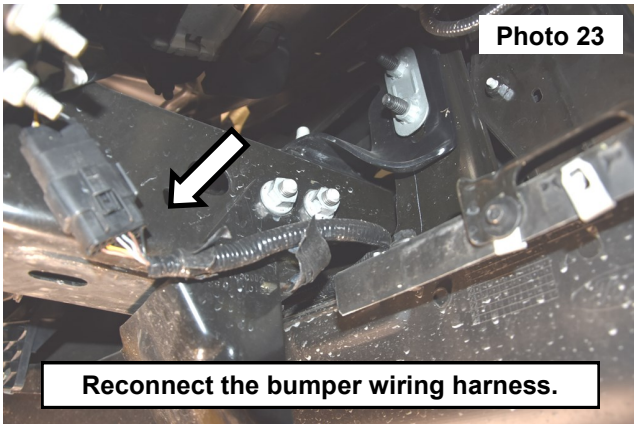


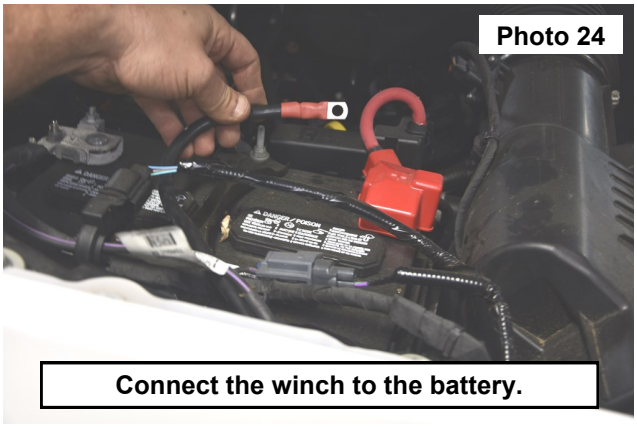
21. Secure the Driver and Passengers side bumper brace using a 18mm socket. **See Photo 21.**
22. Mount the hawse fairlead to the bracket using the button head Allen bolts and the (2) 1/2" nuts. **See Photo 22.**
23. Install the hook then secure using the supplied cotter pin.



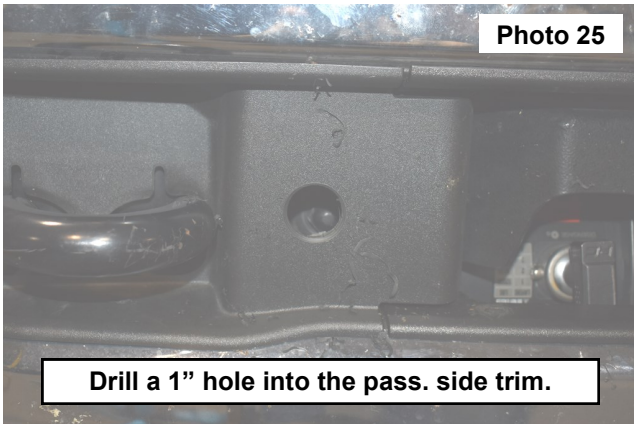


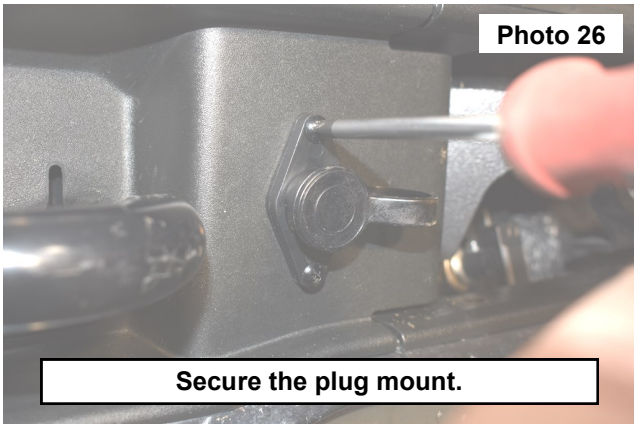
24. Reconnect the bumper wiring harness. **See Photo 23.**
25. Connect the wiring from the winch to the battery of the vehicle. **See Photo 24.**



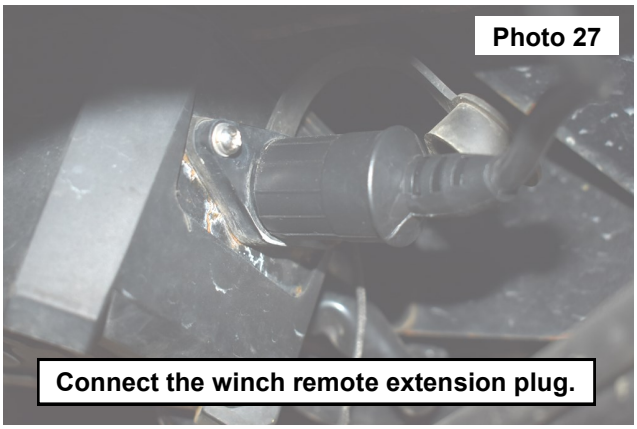


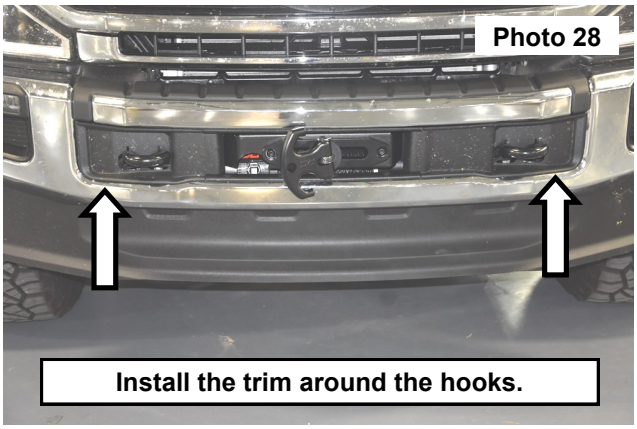
26. Drill a 1” hole into the passengers side bumper trim for the winch remote extension wire. **See Photo 25.**
27. Install the winch remote extension wire through the hole in the trim. Secure the plug mount using (2) #8 x 3/4 self taping screws, tightening using a Philips bit driver. **See Photo 26.**





28. Connect the winch remote extension plug to the control box, using the supplied wire ties to secure the wire to the vehicle. **See Photo 27.**
29. Install the remaining trim around the hooks and center of the bumper. **See Photo 28.**





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